## In The Claims

- 1. (Previously presented) A supercharger, comprising:
  - a shaft having an axis of rotation;
- a gearcase comprising a primary gear housing section and a removable gear housing section;

wherein the primary gear housing section and removable gear housing section meet at a location that is substantially parallel to the shaft axis of rotation;

wherein the primary gear housing section and removable gear housing section include semicircular recesses that provide an opening in the supercharger dimensioned to receive the shaft.

- 2. (Original) The supercharger of claim 1, wherein the location is substantially coplanar with the axis of rotation of a driveshaft or an impeller shaft.
- 3. (Previously presented) The supercharger of claim 1, wherein the location is selected from a group consisting of: a substantially flat plane formed between the primary gear housing section and removable gear housing section, and a substantially flat surface formed between the primary gear housing section and removable gear housing section.
  - 4. (Canceled)
- 5. (Original) The supercharger of claim 1, further comprising a lubrication reservoir disposed within the supercharger.

	6.	(Original) The supercharger of claim 5, wherein the lubrication reservoir is								
separate and detachable.										
a heat t		(Original) The supercharger of claim 5, wherein the lubrication reservoir includes element.								
	8.	(Canceled)								
	9.	(Canceled)								
	10.	(Canceled)								
	11.	(Canceled)								
	12.	(Canceled)								
	13.	(Canceled)								
	14.	(Canceled)								
	15.	(Canceled)								

16.	(Canceled)
17.	(Canceled)
18.	(Canceled)
19.	(Previously presented) A supercharger comprising: an impeller;
	a drive pulley coupled to the supercharger; and
	a disengagement device disposed between the impeller and the drive pulley;
	wherein the disengagement device permits selective disengagement between the
impell	er and the drive pulley;
	wherein the impeller is disengaged from the drive pulley during deceleration.
20.	(Canceled)
21.	(Previously presented) The supercharger of claim 19, wherein the disengagement
compri	ses a one-way clutch.
22.	(Previously presented) The supercharger of claim 19, wherein the disengagement

device

device is coupled to the drive pulley.

- 23. (Original) The supercharger of claim 19, wherein the disengagement device is a sprag or overrunning clutch.
  - 24. (Currently amended) A supercharger comprising:

an impeller;

a drive pulley coupled to the supercharger; and

a disengagement device disposed between the impeller and the drive pulley;

wherein the disengagement device permits <u>selective</u> disengagement and reengagement between the impeller and the drive pulley;

wherein the disengagement device comprises a speed-sensitive mechanism.

- 25. (Original) The supercharger of claim 19, wherein the disengagement device comprises a centrifugal clutch.
  - 26. (Currently amended) A supercharger comprising:

an impeller;

a drive pulley coupled to the supercharger; and

a disengagement device disposed between the impeller and the drive pulley;

wherein the disengagement device permits <u>selective</u> disengagement <del>and reengagement</del> between the impeller and the drive pulley;

wherein the disengagement device comprises both a speed-sensitive mechanism and an over-running mechanism.

- 27. (Canceled)
  28. (Canceled)
  29. (Canceled)
  30. (Canceled)
  31. (Withdrawn) An impeller, comprising:

  a first set of blades having a first height;
  a second set of blades having a second height; and
  a third set of blades having a third height;
  wherein the first height is greater than the second height, and the second height is greater than the third height.
- 32. (Withdrawn) The impeller of claim 31, wherein the blades are disposed at substantially equal circumferential intervals about the impeller.

	33.		(With	ndrawn)	Tl	he imp	eller of	claim 31	, wl	herein	the i	mpe	ller furt	her c	ompi	rises a
fourth	set	of	blades	having	a	fourth	height,	wherein	the	third	heig	ht is	greater	than	the	fourth
height.																

- 34. (Withdrawn) The impeller of claim 31, wherein the impeller comprises an inlet region having a blade count that is less than the blade count of an outlet region.
- 35. (Withdrawn) The impeller of claim 34, wherein the blade count comprises a number of blades having a blade portion that extends into an impeller region.
  - 36. (Canceled)
  - 37. (Canceled)
  - 38. (Canceled)
  - 39. (Canceled)
  - 40. (Canceled)